

PG DIPLOMA IN INFORMATION SECURITY (PGDIS)

PGDIS/ASSIGN/2019

**ASSIGNMENTS
JANUARY 2019**



**SCHOOL OF VOCATIONAL EDUCATION AND TRAINING
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

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Guidelines regarding submission of assignments

1. It is compulsory for the students to submit the prescribed assignments. They will not be allowed to appear for the term-end examination of a course if they do not submit the assignments in time for that course.
2. The assignment responses should be complete in all respects. Before submission, the students should ensure that they have answered all the questions in all assignments. Incomplete answer sheets bring poor grades.
3. The University/ Programme Co-ordinator/ Study centre has the right to reject the assignments received after the due date. Therefore, the students are advised to submit their assignments before the due date.
4. Students should enclose a self-addressed stamped assignment remittance-cum-acknowledgement card (**Form No. 1**) with each assignment response to ensure the delivery of assignments before the last dates prescribed for submission of assignments.
5. In case the students have already done some assignments prescribed in a course, they are required to do the **left-over assignments before taking the Term-end Examination**. If they have qualified in a course on the basis of lesser number of assignments and Term-end Examination, they will **not be eligible to re-do the assignments** with a view to improve the overall qualifying score of that course.
6. In case any student fails to submit the assignments or fails to score minimum qualifying marks, s/he has to wait for fresh assignments meant for the current batch of students.
7. For their own record, students should retain a copy of all the assignment responses, which they submit to the Study Center.
8. Once the students get the pass marks in an assignment, they can not re-submit it for improvement of marks. If the student secured requisite marks in Term-End Examination and Assignments, but did not get requisite overall percentage, then the student can either resubmit the assignment or reappear for the term-end examination for securing the requisite overall percentage.
9. Assignments are not subject to re-evaluation except for factual errors, if any. The discrepancy noticed by the students in the evaluated assignments should be brought to the notice of the Study centre/ Programme Co-ordinator.

Instructions for Doing Assignments

While answering Assignments, the following guidelines are required to be observed:

1. The student should write their Complete correct Enrolment Number, Name, Full Address, Signature and Date on the top right hand corner of the first page of the response sheet.

2. The students should write the Programme Title, Course Code and Course Title on the left hand corner of the first page of their response sheet. Course code may be reproduced from the assignment.

The top of the first page of your response sheet for each assignment should look like this:

PROGRAMME TITLE: ENROLMENT No.:
COURSE CODE: NAME :
COURSE TITLE:
ADDRESS:.....
SIGNATURE:
DATE:

3. The students should write the responses in their own hand. **They should not print or type the answers. They should not reproduce their answers from the units sent to them by the University. If they reproduce from units, they will get poor marks for the respective question.**
4. The students should write each assignment separately. All the assignments should not be written in continuity.
5. The students should write the question number with each answer.
6. The students should use only foolscap size paper for their response and tie all the pages carefully. Avoid using very thin paper. They should allow a 4 cm. margin on the left and at least 4 lines in between each answer. This may facilitate the evaluator to write useful comments on the margins at appropriate places.
7. The students should not copy from the response sheets of other students. If copying is noticed, the assignments of such students will be rejected, and disciplinary action can be taken against the students as per rules of the University.
8. Please remember that it is compulsory to submit your assignments to the study centre before you can take the Term End Exams or else you will not be issued hall tickets. Also remember to keep a copy of your assignments with you and do take a receipt from your Study Center when you submit the assignments. In the event that you do not have a study center, please forward it to the following address:

Programme Coordinator, PGDIS
School of Vocational Education and Training
Block-15E, New Building
Indira Gandhi National Open University
Maidan Garhi New Delhi- 110068

Under no circumstances should they be sent to the (SED) for evaluation. After submitting the assignment at the Study Center in person, the students should get the acknowledgement from the Study Center on the prescribed assignment-cum-acknowledgement card (**Form No. 1**) otherwise, the assignment should be sent under certificate of posting through post.

FORM NO. 1

<p>Enrol. No. _____ Programme Title: _____</p> <p>Name : _____</p> <p>Course Code: _____ Medium: _____</p> <p>Signature of the Student Date : _____</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <th style="text-align: center;">For Office Use Only</th> </tr> <tr> <td>S.No. _____</td> </tr> <tr> <td>Date of Receipt: _____</td> </tr> <tr> <td>Name of Evaluator: _____</td> </tr> <tr> <td> </td> </tr> <tr> <td>Date of despatch to the Evaluator: _____</td> </tr> <tr> <td>Date of receipt from the Evaluator: _____</td> </tr> </table>	For Office Use Only	S.No. _____	Date of Receipt: _____	Name of Evaluator: _____		Date of despatch to the Evaluator: _____	Date of receipt from the Evaluator: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;"> INDIRA GANDHI NATIONAL OPEN UNIVERSITY ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD </th> </tr> <tr> <td style="width: 50%;">Enrol. No. _____</td> <td style="width: 50%;">Programme Title: _____</td> </tr> <tr> <td>Name : _____</td> <td>Medium : _____</td> </tr> <tr> <td>Course Code: _____</td> <td> </td> </tr> <tr> <td> </td> <td style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">For Office Use Only</p> <hr/> <p>S.No. _____</p> <p>Signature of the receiver _____</p> <p>Date : _____</p> <p style="text-align: right;">Seal</p> </td> </tr> <tr> <td colspan="2">Signature of the Student</td> </tr> <tr> <td colspan="2">Name : _____</td> </tr> <tr> <td colspan="2">Address of the Student : _____</td> </tr> <tr> <td colspan="2">Date : _____</td> </tr> <tr> <td colspan="2">(Please write your complete address and affix adequate postal stamp on reverse)</td> </tr> </table>	INDIRA GANDHI NATIONAL OPEN UNIVERSITY ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD		Enrol. No. _____	Programme Title: _____	Name : _____	Medium : _____	Course Code: _____			<p style="text-align: center;">For Office Use Only</p> <hr/> <p>S.No. _____</p> <p>Signature of the receiver _____</p> <p>Date : _____</p> <p style="text-align: right;">Seal</p>	Signature of the Student		Name : _____		Address of the Student : _____		Date : _____		(Please write your complete address and affix adequate postal stamp on reverse)	
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To

(ADDRESS OF THE STUDENT)

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Course Code : **MSEI-021**
Course Title : **Introduction to Information Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: What is virus? Explain its characteristics and types.
(10 Marks)

Question 2: What is ethical hacking? Please explain with the help of examples.
(5 Marks)

Question 3: What is Topology? Write down the types of network topology.
(5 Marks)

Course Code : **MSEI-022**
Course Title : **Network Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Explain the concept of asymmetric cryptography. How asymmetric encryption works? Also explain its types.

(10 Marks)

Question 2: Write short notes on any five topics :

1. Cryptography
2. Pretty Good Privacy
3. Application security
4. WEP encryption
5. Handshake protocol
6. Symmetric ciphers
7. AES
8. Certification authorities
9. Steganography
10. IPSEC

(10 Marks)

Course Code : **MSEI-023**
Course Title : **Cyber Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Explain the role of Certificate Authority in transmitting digital information through the mechanism of cryptography.

(5 Marks)

Question 2: How do search engines work?

(5 Marks)

Question 3: The basic web architecture is associated with three key standards – HyperText Markup Language (HTML), Uniform Resource Identifier (URI) and HyperText Transfer Protocol (HTTP). Explain each of them in detail.

(10 Marks)

Course Code : **MSE-024**
Course Title : **Policy, Standards and Laws**
Maximum Marks : **30**
Last date of Submission : **30th March, 2019**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Imagine you are working with information security department of your company and you are required to provide suggestions to develop information security policy for your company.

(10 Marks)

Question 2: Write the limitations or drawbacks in the amendments to the Information Technology. Elaborate on the liability of intermediaries under the amended Information Technology Act.

(10 Marks)

Question 3: Do you think that the cyberspace and IPR are interlinked with each other. If yes, in what manner? If no, then how these are independent?

(10 Marks)

Course Code : **MSEI-025**
Course Title : **Application and Business Security Developments**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Explain the guidelines for validation of inputs.

(10 Marks)

Question 2: Why do we need coding standards? Explain the advantages of coding standards.

(10 Marks)

Course Code : **MSEI-026**
Course Title : **BCP, DR Planning and Audit**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: When technology becomes complex and coupled and something goes wrong in the system as a whole is known as technological breakdown which leads to technological crisis. Explain technological crisis in detail with examples.

(10 Marks)

Question 2: What is business resumption planning? Explain its goals and benefits.

(10 Marks)

Course Code : **MSEI-027**
Course Title : **Digital Forensics**
Maximum Marks : **20**
Last date of Submission : **30th March, 2019**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: There are the cyber crimes that target computer networks or devices directly. Kindly explain such cyber crimes and the remedies available under law to protect from such crimes.

(10 Marks)

Question 2: Explain the objectives of digital investigation. What is the importance of such investigation in this cyber world?

(10 Marks)